

STATE OF UTAH CONTRACT

1.	CONTRACTING PARTIES: This contract is between the fo Department of Transportation Agency Code: 810, Proc/V CONTRACTOR:			e following agency of the State of Utah: c/Various Regions referred to as (STATE), and the following		
	Peak Asphalt L.L.C.	ı				
		me		LEGAL STATUS CO	oprietor	
	1710 West 2600 South Address			[] Non-Profit Corporation [X] For-Profit Corporation [] Partnership [] Government Agency		
	Woods Cross City	UT State	84087 Zip	[] Govern	ment _. Agency	
	Contact Person Craig Fa Federal Tax ID# 300246		1 296-0166 I dor # 900039A	Email <u>cfabrizio@peakaspl</u> Commodity Code # 7		,
2.	GENERAL PURPOSE OF This is a requirements of			of this contract is to provi various types and grades		
3.	PROCUREMENT: This c	ontract is entered i	nto as a result of t	he Procurement process o	n Bid#PM6032.	
4.	CONTRACT PERIOD: Ef early or extended in accor Renewal options (if any):	dance with the ten	ms and conditions		2007 unless terminated	
5.	CONTRACT COSTS: Thi	s is a requirement	s contract. See at	achment D for pricing.		
6.	ATTACHMENT A: Division ATTACHMENT B: Scope ATTACHMENT C: Special ATTACHMENT D: Itemize Any conflicts between A	of Work al Terms and Conc ed Price Lists.	litions	nd Conditions ts will be resolved in fav	or of Attachment A.	
7.	a. All other governmental	laws, regulations, it Code, Procurem	or actions applicatent Rules and Cor	tractors response to bid#	vices authorized by this contract.	
	CONTRACTOR SEE ATTACHED			2 GAT	ATE 1/27/06	
	Contractor's signature	Date		Agency's Signature	Date	
	Craig Fabrizio –Regiona Type or Print Name and T		ager_	Director, Division of F	EIVED AND ED BY FINANCE FEB 1 0 2006	200
	LaDonna Haslem Agency Contact Person) 965- 4068 phone Number	(801) 965-4073 Fax Number	<u>lhaslem@utah.gov</u> Email Address	

(Revision 08/26/2003)

MAIL TO:

STATE OF UTAH
DIVISION OF PURCHASING
3150 STATE OFFICE BUILDING, CAPITOL HILL
P.O. BOX 141061
SALT LAKE CITY, UTAH B4114-1061
TELEPHONE (801) 538-3026
http://purchasing.utah.gov

Invitation to Bid



Solicitation Number: PN

PM6032

Due Date:

12/21/05 @ 2:00 P.M.

Date Sent:

December 7, 2005

Agency Contract

Goods and services to be purchased: Provide Aspha

Provide Asphalt - Various Locations - Pickup and Delivery

Must Complete

Company Name		Federal	Tax Identification Number
Peak Asphalt, LLC		20.02	46040
Ordering Address	City	State	46812 Zip Code
			1 0000
1710 West 2600 South Remittance Address (if different from ordering address)	Woods Cross	UT	84087
, and an old string address)	City	State	Zip Code
Type 🖂 🗆 🗆	Company Contact Person		
Corporation Partnership Proprietorship Government			
Telephone Number (include area code)	Craig Fabrizio		
respirate Number (madde area code)	Fax Number (include area code	e)	
801-296-0166	801-296-9590		
Company's Internet Web Address	Email Address		
,			
Discount Terms (for bid purposes, bid discounts less than 30 days will not be	Cfabrizio@peaka	<u>asphalt.</u>	. COM
considered)	required minimums)	i Neceipt of O	order (see attached for any
The following documents are included in this solicitation: Solicitations and Conditions and specifications.	citation forms, instructions	s and gene	eral provisions. Terms
and Conditions, and specifications. Please review all docume	ents carefully before comp	oleting.	rat provident, remis
· ·			
The undersigned certifies that the goods or services offered a Utah. Yes \underline{X} No If no, enter where produced, etc	re produced, mined, grow	vn, manufa	actured, or performed in
	<u></u>		
			
Offeror's Authorized Representative's Signature	Date		
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I lay Tapria		15	
Type or Print Name	→Position or Title	·	
Craig Fabrizio	Regional Market	ina Man	2002
	Tuestonal Harver	rny rian	ayer [

ATTACHMENT A: STANDARD TERMS AND CONDITIONS

- AUTHORITY: Provisions of this contract are pursuant to the authority set forth in 63-56, <u>Utah Code Annotated</u>, 1953, as amended, Utah State Procurement Rules (<u>Utah Administrative Code</u> Section R33), and related statutes which permit the State to purchase certain specified services, and other approved purchases for the State.
- 2. CONTRACT JURISDICTION, CHOICE OF LAW, AND VENUE: The provisions of this contract shall be governed by the laws of the State of Utah. The parties will submit to the jurisdiction of the courts of the State of Utah for any dispute arising out of this Contract or the breach thereof. Venue shall be in Salt Lake City, in the Third Judicial District Court for Salt Lake County.
- 3. LAWS AND REGULATIONS: Any and all supplies, services and equipment furnished will comply fully with all applicable Federal and State laws and regulations.
- 4. RECORDS ADMINISTRATION: The Contractor shall maintain, or supervise the maintenance of all records necessary to properly account for the payments made to the Contractor for costs authorized by this contract. These records shall be retained by the Contractor for at least four years after the contract terminates, or until all audits initiated within the four years, have been completed, whichever is later. The Contractor agrees to allow State and Federal auditors, and State Agency Staff, access to all the records to this contract, for audit and inspection, and monitoring of services. Such access will be during normal business hours, or by appointment.
- 5. CONFLICT OF INTEREST: Contractor represents that none of its officers or employees are officers or employees of the State of Utah, unless disclosure has been made in accordance with 67-16-8, <u>Utah Code Annotated</u>, 1953, as amended.
- 6. CONTRACTOR, AN INDEPENDENT CONTRACTOR: The Contractor shall be an independent contractor, and as such, shall have no authorization, express or implied, to bind the State to any agreements, settlements, liability, or understanding whatsoever, and agrees not to perform any acts as agent for the State, except as herein expressly set forth. Compensation stated herein shall be the total amount payable to the Contractor by the State. The Contractor shall be responsible for the payment of all income tax and social security amounts due as a result of payments received from the State for these contract services. Persons employed by the State and acting under the direction of the State shall not be deemed to be employees or agents of the Contractor.
- 7. INDEMNITY CLAUSE: The Contractor agrees to indemnify, save harmless, and release the State OF UTAH, and all its officers, agents, volunteers, and employees from and against any and all loss, damages, injury, liability, suits, and proceedings arising out of the performance of this contract which are caused in whole or in part by the negligence of the Contractor's officers, agents, volunteers, or employees, but not for claims arising from the State's sole negligence.
- 8. EQUAL OPPORTUNITY CLAUSE: The Contractor agrees to abide by the provisions of Title VI and VII of the Civil Rights Act of 1964 (42USC 2000e) which prohibits discrimination against any employee or applicant for employment or any applicant or recipient of services, on the basis of race, religion, color, or national origin; and further agrees to abide by Executive Order No. 11246, as amended, which prohibits discrimination on the basis of sex; 45 CFR 90 which prohibits discrimination on the basis of age; and Section 504 of the Rehabilitation Act of 1973, or the Americans with Disabilities Act of 1990 which prohibits discrimination on the basis of disabilities. Also, the Contractor agrees to abide by Utah's Executive Order, dated March 17, 1993, which prohibits sexual harassment in the work place.
- SEPARABILITY CLAUSE: A declaration by any court, or any other binding legal source, that any provision of this contract is
 illegal and void shall not affect the legality and enforceability of any other provision of this contract, unless the provisions are
 mutually dependent.
- 10. RENEGOTIATION OR MODIFICATIONS: This contract may be amended, modified, or supplemented only by written amendment to the contract, executed by the same persons or by persons holding the same position as persons who signed the original agreement on behalf of the parties hereto, and attached to the original signed copy of the contract.
- 11. DEBARMENT: The Contractor certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction (contract), by any governmental department or agency. If the Contractor cannot certify this statement, attach a written explanation for review by the State. The Contractor must notify the State Director of Purchasing within 30 days if debarred by any governmental entity during the Contract period.
- 12. **TERMINATION:** Unless otherwise stated in the Special Terms and Conditions, this contract may be terminated, with cause by either party, in advance of the specified termination date, upon written notice being given by the other party. The party in violation will be given ten (10) working days after notification to correct and cease the violations, after which the contract may be terminated for cause. This contract may be terminated without cause, in advance of the specified expiration date, by either party, upon 90 days prior written notice being given the other party. On termination of this contract, all accounts and payments will be processed according to the financial arrangements set forth herein for approved services rendered to date of termination.
- 13. NONAPPROPRIATION OF FUNDS: The Contractor acknowledges that the State cannot contract for the payment of funds not yet appropriated by the Utah State Legislature. If funding to the State is reduced due to an order by the Legislature or the Governor, or is required by State law, or if federal funding (when applicable) is not provided, the State may terminate this contract or proportionately reduce the services and purchase obligations and the amount due from the State upon 30 days written notice. In the case that funds are not appropriated or are reduced, the State will reimburse Contractor for products delivered or services performed through the date of cancellation or reduction, and the State will not be liable for any future commitments, penalties, or liquidated damages.
- 14. SALES TAX EXEMPTION: The State of Utah's sales and use tax exemption number is E33399. The tangible personal property or services being purchased are being paid from State funds and used in the exercise of that entity's essential functions. If the items being purchased are construction materials, they will be converted into real property by employees of this government entity, unless otherwise stated in the contract.

- 15. WARRANTY: The contractor agrees to warrant and assume responsibility for all products (including hardware, firmware, and/or software products) that it licenses, contracts, or sells to the State of Utah under this contract for a period of one year, unless otherwise specified and mutually agreed upon elsewhere in this contract. The contractor (seller) acknowledges that all warranties granted to the buyer by the Uniform Commercial Code of the State of Utah apply to this contract. Product liability disclaimers and/or warranty disclaimers from the seller are not applicable to this contract unless otherwise specified and mutually agreed upon elsewhere in this contract. In general, the contractor warrants that: (1) the product will do what the salesperson said it would do, (2) the product will live up to all specific claims that the manufacturer makes in their advertisements, (3) the product will be suitable for the ordinary purposes for which such product is used, (4) the product will be suitable for any special purposes that the State has relied on the contractor's skill or judgment to consider when it advised the State about the product, (5) the product has been properly designed and manufactured, and (6) the product is free of significant defects or unusual problems about which the State has not been warned. Remedies available to the State include the following: The contractor will repair or replace (at no charge to the State) the product whose nonconformance is discovered and made known to the contractor in writing. If the repaired and/or replaced product proves to be inadequate, or fails of its essential purpose, the contractor will refund the full amount of any payments that have been made. Nothing in this warranty will be construed to limit any rights or remedies the State of Utah may otherwise have under this contract.
- 16. PUBLIC INFORMATION: Contractor agrees that the contract will be a public document, and may be available for distribution, and Contractor gives the State express permission to make copies of the contract and/or of the response to the solicitation in accordance with the State of Utah Government Records Access and Management Act. The permission to make copies as noted will take precedence over any statements of confidentiality, proprietary information, copyright information, or similar notation.
- 17. DELIVERY: Unless otherwise specified in this contract, all deliveries will be F.O.B. destination with all transportation and handling charges paid by the Contractor. Responsibility and liability for loss or damage will remain with Contractor until final inspection and acceptance when responsibility will pass to the State except as to latent defects, fraud and Contractor's warranty obligations.
- 18. ORDERING AND INVOICING: All orders will be shipped promptly in accordance with the delivery schedule. The Contractor will promptly submit invoices (within 30 days of shipment or delivery of services) to the State. The State contract number and/or the agency purchase order number shall be listed on all invoices, freight tickets, and correspondence relating to the contract order. The prices paid by the State will be those prices listed in the contract. The State has the right to adjust or return any invoice reflecting incorrect pricing.
- 19. PAYMENT: Payments are normally made within 30 days following the date the order is delivered or the date a correct invoice is received, whichever is later. All payments to the Contractor will be remitted by mail unless paid by the State of Utah's Purchasing Card.
- 20. PATENTS, COPYRIGHTS, ETC.: The Contractor will release, indemnify and hold the State, its officers, agents and employees harmless from liability of any kind or nature, including the Contractor's use of any copyrighted or un-copyrighted composition, secret process, patented or un-patented invention, article or appliance furnished or used in the performance of this contract.
- 21. ASSIGNMENT/SUBCONTRACT: Contractor will not assign, sell, transfer, subcontract or sublet rights, or delegate responsibilities under this contract, in whole or in part, without the prior written approval of the State.
- 22. DEFAULT AND REMEDIES: Any of the following events will constitute cause for the State to declare Contractor in default of the contract: 1. Nonperformance of contractual requirements; 2. A material breach of any term or condition of this contract. The State will issue a written notice of default providing a ten (10) day period in which Contractor will have an opportunity to cure. Time allowed for cure will not diminish or eliminate Contractor's liability for damages. If the default remains, after Contractor has been provided the opportunity to cure, the State may do one or more of the following: 1. Exercise any remedy provided by law; 2. Terminate this contract and any related contracts or portions thereof; 3. Impose liquidated damages, if liquidated damages are listed in the contract; 4. Suspend Contractor from receiving future solicitations.
- 23. FORCE MAJEURE: Neither party to this contract will be held responsible for delay or default caused by fire, riot, acts of God and/or war which is beyond that party's reasonable control. The State may terminate this contract after determining such delay or default will reasonably prevent successful performance of the contract.
- 24. PROCUREMENT ETHICS: The Contractor understands that a person who is interested in any way in the sale of any supplies, services, construction, or insurance to the State of Utah is violating the law if the person gives or offers to give any compensation, gratuity, contribution, loan or reward, or any promise thereof to any person acting as a procurement officer on behalf of the State, or who in any official capacity participates in the procurement of such supplies, services, construction, or insurance, whether it is given for their own use or for the use or benefit of any other person or organization (63-56-73, <u>Utah Code Annotated</u>, 1953, as amended).
- 25. CONFLICT OF TERMS: Contractor Terms and Conditions that apply must be in writing and attached to the contract. No other Terms and Conditions will apply to this contract including terms listed or referenced on a Contractor's website, terms listed in a Contractor quotation/sales order, etc. In the event of any conflict in the contract terms and conditions, the order of precedence shall be: 1. State Standard Terms and Conditions; 2. State Special Terms and Conditions; 3. Contractor Terms and Conditions.

(Revision date: Nov 21, 2003)

ASPHALT MATERIALS

THE FOLLOWING ASPHALT MATERIAL SHALL BE QUOTED FOB POINT OF MANUFACTURER.

ADDRESS OF LOADING POINT FOR UDOT DISTRIBUTORS AND TANKERS TO LOAD MATERIAL: 1710 West 2600 South, Woods Cross UT 84087

45 TONS 145 TONS 335 TONS 705 TONS 25 TONS 560 TONS 525 TONS 25 TONS 25 TONS	SC ASPHALT MATERIAL, VARIOUS GRADES MC ASPHALT MATERIAL, VARIOUS GRADES SS OR CSS EMULSIFIED ASPHALT MATERIAL, VARIOUS GRADES CRS2A OR CRS2B EMULSIFIED ASPHALT MATERIAL, VAR. GRADES LMCRS-2A ASPHALT MATERIAL ASPHALT, REJUVENATION - TYPE B - MODIFIED ASPHALT, REJUVENATION - TYPE C ASPHALT REJUVENATION - TYPE D HIGH FLOAT EMULSION, VARIOUS GRADES
1 LOT	THE FOLLOWING ASPHALT MATERIAL SHALL BE QUOTED FOB DELIVERED TO ZONES AS SHOWN ON THE ATTACHED ASPHALT BID.

ASPHALT MATERIAL F.O.B. DESTINATION ZONE PRICE LIST

This bid requires the vendor to give the State two (2) hrs. free unloading. Failure to bid as requested, could possibly cause the vendor to not be considered for award.

<u>UDOT SPREAD</u> Under this situation, the vendor supplies material and freight and the Department takes possession of the product and spreads. In this situation tax is not paid because the State is tax exempt.

The zones in each District/Region are designated on attached map as follows:

REGION 1	ZONES 1A THRU 1H
REGION 2	ZONES 2A THRU 2D
REGION 3	ZONES 6A THRU 6G
PRICE DISTRICT	ZONES 4A THRU 4F
RICHFIELD DISTRICT	ZONES 3A THRU 3J
CEDAR CITY DISTRICT	ZONES 5A THRU 5F

UTAH DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION ASPHALT MATERIAL

SUMMARY SPECIFICATIONS

ALL ASPHALT MATERIAL SHALL COMPLY TO THE FOLLOWING SPECIFICATIONS.

THE FOLLOWING IS A SUMMARY OF ASPHALT MATERIAL WHICH ARE TO BE QUOTED FOB DELIVERED TO ZONES AS SHOWN ON THE ATTACHED ASPHALT BID SHEETS.

1.	500	TONS SC ASPHALT MATERIAL, VARIOUS GRADES
2.	250	TONS MC ASPHALT MATERIAL, VARIOUS GRADES
3.	10,050	TONS SS OR CSS, EMULSIFIED ASPHALT MATERIAL, VARIOUS GRADES
4.	8,500	TONS CRS-2A, CRS-2B SEAL COAT EMULSIFIED ASPHALT MATERIAL, VARIOUS GRADES
5.	2,000	TONS LMCRS-2A MATERIAL, VARIOUS GRADES
6.	0	TONS ASPHALT REJUVENATOR - TYPE B
7.	1.775	TONS ASPHALT REJUVENATOR - TYPE B, MODIFIED
8.	2,500	TONS ASPHALT REJUVENATOR - TYPE C
9.	400	TONS ASPHALT REJUVENATOR - TYPE D
10.	3,050	TONS HIGH FLOAT EMULSION, VARIOUS GRADES

NO STRIP ADDITIVE TO BE QUOTED BY <u>N/A</u> PERCENTAGE PER TON OF ASPHALT MATERIAL. (BIDDER MUST SPECIFY BRAND AND TYPE OF ADDITIVE TO BE USED.) SEE ZONE BID FOR PRICE PER TON. THE ASPHALT MATERIAL IN THIS REQUEST IS FOR BIDDING ONLY. THE FOLLOWING DISTRIBUTION OF ASPHALT MATERIAL QUANTITIES IS FOR INFORMATION ONLY AND IS NOT INTENDED TO IMPLY AGREED QUANTITIES. ACTUAL QUANTITIES NEEDED WILL DEPEND ON VOLUME OF WORK REQUIRED DUE TO ROAD SURFACE CONDITIONS AND FUNDING LIMITATIONS.

LIQUID ASPHALT REGIONS & DISTRICTS

Type	Region 1	Region 2	Region 3	Price	Richfield	Cedar
sc	0	0	0	0	500	0
MC	0	0	0	50	100	100
SS OR CSS EMULSION	0	0	7000	650	1200	1200
CRS-2A, CRS-2B OR RS-2A, RS-2B	500	0	0	0	4000	4000
LMCRS-2A	1000	0	. 0	0	0	0
CRS-2R	1000	0	0	0	0	0
ASPHALT REJUVENATOR TYPE B	0	0	0	0	0	. 0
ASPHALT REJUVENATOR TYPE B (Modified)	1000	0	0	575	200	0
ASPHALT REJUVENATOR TYPE C	1000	0	0	0	50	ı·1450
ASPHALT REJUVENATOR TYPE D	200	0	0	0	0	200
HFE, VARIOUS GRADES	0	0	0	3050	0	0

THE ABOVE QUANTITIES ARE ESTIMATES FOR EACH YEAR OF THE NEXT ONE YEAR UNLESS OTHERWISE NOTIFIED.

ASPHALT MATERIAL DELIVERED BELOW THE REQUIRED TEMPERATURE SHALL BE REHEATED BY SUPPLIER OR REJECTED. ASPHALT MATERIAL DELIVERED ABOVE THE REQUIRED TEMPERATURE MAY BE ACCEPTED IF ALLOWED TO COOL TO THE MAXIMUM SPECIFIED TEMPERATURE PROVIDED OVERHEATING DOES NOT CAUSE COMPLIANCE PROBLEMS TO OTHER SPECIFICATIONS. COOLING SHALL BE ACCOMPLISHED WITH THE HATCHES CLOSED TO PREVENT THE LOSS OF DILUENTS.

THE SUPPLIER SHALL SUBMIT WITH THEIR BID THEIR METHOD TO REHEAT THE MATERIAL, IF IT IS BELOW THE MINIMUM REQUIRED TEMPERATURE. THE EVENT THE LOW BIDDER DOES NOT SUPPLY, AS SPECIFIED IN THE AGREEMENT, THE STATE RESERVES THE RIGHT TO OBTAIN MATERIAL FROM THE NEXT LOW BIDDER.

SOME EMULSIFIED ASPHALT SHALL BE BID PER TON DELIVERED IN CONCENTRATED FORM, DILUTED ONE (1) PART EMULSION TO ONE (1) PART WATER AND TWO (2) PARTS EMULSION FOR ONE (1) PART WATER. SEE ZONE SHEETS FOR THESE EMULSIONS.

UTAH DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION

ORDERS AND DELIVERIES

Asphalt Material shall be ordered by and delivered to the following:

REGION ONE 166 North Southwell Street Ogden, Utah 84404 Phone: (801) 620-1600

REGION TWO 2010 South 2760 West Salt Lake City, Utah 84104 Phone: (801) 975-4900

REGION THREE 658 North 1500 West Orem, Utah 84057 Phone: (801) 227-8000

RICHFIELD DISTRICT 708 SOUTH 100 WEST RICHFIELD, Utah 84701 Phone: (435) 896-1399

PRICE DISTRICT 940 South Carbon Ave. Price, Utah 84501-0903 Phone: (435) 637-1470

CEDAR CITY DISTRICT 1470 North Airport Road Cedar City, Utah 84721-1009 Phone: (435) 865-5500

UTAH DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION

INVOICE ADDRESSES

Asphalt Material to be invoiced to the Regions as follows:

REGION ONE 166 North Southwell Street Ogden, Utah 84404 (801) 620-1600

REGION TWO 2010 South 2760 West Salt Lake City, Utah 84104 (801) 975-4900

REGION THREE 658 North 1500 West Orem, Utah 84057 (801) 227-8000

Richfield District, Price District and Cedar City District have been combined into a Southern Region. All invoices for these Districts shall be invoiced as follows:

REGION FOUR 1345 South 350 West Richfield, Utah 84701 (435) 893-4799

SECTION 02745P

ASPHALT MATERIAL

PART 1GENERAL

1.1 SECTION INCLUDES

A. Asphalt materials

1.2 PAYMENT PROCEDURES

- A. Price adjustments for asphalt cement and liquid asphalt (chip-seal emulsions and/or cut-backs):
 - 1. Standard department procedures governs price adjustments made where asphalt material does not conform to the specifications
 - a. If the price adjustment exceeds 30 percent, the Engineer may order the removal of any or all the defective asphalt material.
 - b. The pay factor for such material is 0.50 when allowed to remain in place.
- B. Price adjustments for Performance Graded Asphalt Binder (PGAB):
 - Standard department PGAB management plan governs price reductions or removal of material where the binder does not conform to the specifications.

1.3 REFERENCES

- A. AASHTO M 81: Cut-Back Asphalt (Rapid-Curing Type)
- B. AASHTO M 82: Cut-Back Asphalt (Medium-Curing Type)
- C. AASHTO M 140: Emulsified Asphalt
- D. AASHTO M 208: Cationic Emulsified Asphalt
- E. AASHTO M 226: Viscosity Graded Asphalt Cement
- F. AASHTO M 320: Performance Graded Asphalt Cement
- G. AASHTO R 28: Accelerated Aging of Asphalt Binder Using a Pressurized Aging Vessel (PAV).
- H. AASHTO T 44: Solubility of Bituminous Materials
- I. AASHTO T 48: Flash and Fire Points by Cleveland Open Cup
- J. ASHTO T 49: Penetration of Bituminous Materials
- K. AASHTO T 50: Float Test for Bituminous Materials
- L. AASHTO T 51: Ductility of Bituminous Materials
- M. AASHTO T 59: Testing Emulsified Asphalt
- N. AASHTO T 201: Kinematic Viscosity of Asphalts
- O. AASHTO T 228: Specific Gravity of Semi-Solid Bituminous Materials
- P. AASHTO T 240: Effect of Heat and Air on a Moving Film of Asphalt (Rolling Thin-Film Oven Test)
- Q. AASHTO T 300: Force Ductility of Bituminous Materials
- R. AASHTO T 301: Elastic Recovery Test of Bituminous Materials by Means of a Ductilometer
- S. AASHTO T 313: Determining the Flexural Creep Stiffness of Asphalt Binder Using the Bending Beam Rheometer (BBR)

- T. AASHTO T 314: Determining the Fracture Properties of Asphalt Binder in Direct Tension
- U. AASHTO T 315: Determining the Rheological Properties of Asphalt Binder Using a Dynamic Shear Rheometer (DSR).
- V. AASHTO T 316: Viscosity Determination of Asphalt Binder Using Rotational Viscometer.
- W. ASTM D 92: Flash and Fire Points by Cleveland Open Cup
- X. ASTM D 1190: Concrete Joint Sealer, Hot-Applied Elastic Type
- Y. ASTM D 2007: Characteristic Groups in Rubber Extender and Processing Oils and Other Petroleum-Derived Oils by the Clay-Gel Absorption Chromatographic Method
- Z. ASTM D 2026: Cutback Asphalt (Slow-Curing Type)
- AA. ASTM D 3405: Joint Sealants, Hot-Applied, for Concrete and Asphalt Pavements
- BB. ASTM D 4402: Viscosity Determinations of Unfilled Asphalts Using the Brookfield Thermosel Apparatus
- CC. ASTM D 5329: Sealants and Fillers, Hot-Applied, For Joints and Cracks in Asphaltic and Portland Cement Concrete Pavements
- DD. ASTM D 5801: Toughness and Tenacity of Bituminous Materials
- EE. California Test Methods
- FF. UDOT Materials Manual of Instruction
- GG. UDOT Minimum Sampling and Testing Guide
- HH. UDOT Asphalt Binder Quality Management Plan

1.4 SUBMITTALS

- A. For each shipment of material, supply a vendor-prepared bill of lading showing the following information:
 - Type and grade of material
 - 2. Type and amount of additives, used, if applicable
 - Destination
 - 4. Consignee's name
 - Date of Shipment
 - Railroad car or truck identification
 - Project number
 - 8. Loading temperature.
 - 9. Net weight in tons (or net gallons corrected to 60 degrees F, when requested)
 - 10. Specific gravity
 - 11. Bill of lading number
 - Manufacturer of asphalt material

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Each shipment of asphalt material must:
 - Be uniform in appearance and consistency.
 - Show no foaming when heated to the specified loading temperature.
- B. Do not supply shipments contaminated with other asphalt types or grades than those specified.

1.6 GRADE OF MATERIAL

A. The Engineer determines the grade of material to be used based on the supply source designated by the Contractor when the bid proposal lists more than one grade of asphalt material.

PART 2 PRODUCTS

2.1 PERFORMANCE GRADED ASPHALT BINDER (PGAB)

- Supply PGABs under the Approved Supplier Certification (ASC) System. Α. Refer to the UDOT Minimum Sampling and Testing Guide, Section 509, Asphalt Binder Management Plan.
- As specified in AASHTO M 320 for all PGABs having algebraic differences В. less than 92 degrees between the high and low design temperatures.
- As specified in Tables 1, 2, 3, 4, 5, 6, 7, and 8 for all PGABs having algebraic C. differences equal to or greater than 92 degrees between the high and low design temperatures.

Table 1

	PG58-34	
Original Binder		
Dynamic Shear Rheometer, AASHTO T 315	@58°C, G*, kPa	1.30 Min.
	@58°C, phase angle, degrees	74.0 Max. "
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.
Flash Point, AASHTO T 48	°C	260 Min.
RTFO Residue, AASHTO T 240		
Dynamic Shear Rheometer, AASHTO T 315	@5°C, G*/sinδ, kPa	2.20 Min.
Elastic Recovery, AASHTO T 301 mod ¹	%	65 Min.
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28	
Dynamic Shear Rheometer, AASHTO T 315	@16°C, kPa	5000 Max.
Bending Beam Rheometer, AASHTO T 313	@-24°C, S, MPa	300 Max.
	@-24°C, m-value	0.300 Min.
Direct Tension Test, AASHTO T 314	@-24°C, Failure Strain, %	1.5 Min.
@-2	24°C, Failure Stress², MPa	4.0 Min.

specimen at its center with a pair of scissor...

² No allowances will be given for passing at a colder grade

Table 2

Original Binder	PG64-28	
Dynamic Shear Rheometer, AASHTO T 315	@64°C, G*, kPa	1.30 Min.
	@64°C, phase angle, degrees	74.0 Max.
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.
Flash Point, AASHTO T 48	°C	260 Min.
RTFO Residue, AASHTO T 240		
Dynamic Shear Rheometer, AASHTO T 315	@64°C, G*/sinδ, kPa	2.20 Min.
Elastic Recovery, AASHTO T 301 mod ¹	%	65 Min.
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28	
Dynamic Shear Rheometer, AASHTO T 315	@22°C, kPa	5000 Max.
Bending Beam Rheometer, AASHTO T 313	@-18°C, S, MPa	300 Max.
	@-18°C, m-value	0.300 Min.
Direct Tension Test, AASHTO T 314	@-18°C, Failure Strain, %	1:.5 Min.
@-1	8°C, Failure Stress ² , MPa	4.0 Min.

specimen at its center with a pair of scissors...

² No allowances will be given for passing at a colder grade

Table 3

PG64-34			
Original Binder			
Dynamic Shear Rheometer, AASHTO T 315	@64°C, G*, kPa	1.30 Min.	
	@64°C, phase angle, degrees	71.0 Max.	
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.	
Flash Point, AASHTO T 48	°C	260 Min.	
RTFO Residue, AASHTO T-240			
Dynamic Shear Rheometer, AASHTO T 315	@64°C, G*/sinδ, kPa	2.20 Min.	
Elastic Recovery, AASHTO T 301 mod ¹	%	70 Min.	
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO R	28		
Dynamic Shear Rheometer, AASHTO T 315	@19°C, kPa	5000 Max.	
Bending Beam Rheometer, AASHTO T 313	@-24°C, S, MPa	300 Max.	
	@-24°C, m-value	0.300 Min.	

Direct Tension Test, AASHTO T 314	@-24°C, Failure Strain, %	1.5 Min.
Breck tension tool, when it is	@-24°C, Failure Stress ² , MPa	4.0 Min.
Modify paragraph 4.5 as follows: Afte	r 20 cm has been reached, stop the ductilometer and	d within 2 seconds, sever the
specimen at its center with a pair of scis		
² No allowances will be given for passing	g at a colder grade	

	Table 4 PG70-22	
Original Binder		
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*, kPa	1.30 Min.
Synamic chear vines metaly a part of	@70°C, phase angle, degrees	74.0 Max.
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.
Flash Point, AASHTO T 48	°C	260 Min.
RTFO Residue, AASHTO T 240	-	
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*/sinδ, kPa	2.20 Min.
Elastic Recovery, AASHTO T 301 mod ¹	%	65 Min.
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28	
Dynamic Shear Rheometer, AASHTO T 315	@28°C, kPa	5000 Max.
Bending Beam Rheometer, AASHTO T 313	@-12°C, S, MPa	300 Max.
	@-12°C, m-value	0.300 Min.
Direct Tension Test, AASHTO T 314	@-12°C, Failure Strain, %	1.5 Min.
	2°C, Failure Stress ² , MPa	4.0 Min.
Modify paragraph 4.5 as follows: After 20 cm ha	s been reached, stop the ductilometer an	d within 2 seconds, sever the

	Table 5	
	PG70-28	
Original Binder		
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*, kPa	1.30 Min.
	@70°C, phase angle, degrees	71.0 Max.
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.
Flash Point, AASHTO T 48	°C	260 Min.
RTFO Residue, AASHTO T 240		11
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*/sinδ, kPa	2.20 Min.
Elastic Recovery, AASHTO T 301 mod ¹	%	, 70 Min.
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28	
Dynamic Shear Rheometer, AASHTO T 315	@25°C, kPa	5000 Max.
Bending Beam Rheometer, AASHTO T 313	@-18°C, S, MPa	300 Max.
	@-18°C, m-value	0.300 Min.
Direct Tension Test, AASHTO T 314	@-18°C, Failure Strain, %	1.5 Min.
@-18	3°C, Failure Stress ² , MPa	4.0 Min.
¹ Modify paragraph 4.5 as follows: After 20 cm has specimen at its center with a pair of scissors ² No allowances will be given for passing at a colde	s been reached, stop the ductilometer an	id within 2 seconds, sever the

Table 6 PG70-34				
Original Binder				
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*, kPa	1.30 Min.		
	@70°C, phase angle, degrees	71.0 Max.		
Rotational Viscometer, AASHTO T 316	@135 °C, Pa.s	3 Max.		
Flash Point, AASHTO T 48	°C	260 Min.		
RTFO Residue, AASHTO T 240				
Dynamic Shear Rheometer, AASHTO T 315	@70°C, G*/sinδ, kPa	2.20 Min.		
Elastic Recovery, AASHTO T 301 mod1	%	75 Min.		
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTC) R 28			
Dynamic Shear Rheometer, AASHTO T 315	@22°C, kPa	5000 Max.		
Bending Beam Rheometer, AASHTO T 313	@-24°C, S, MPa	300 Max.		
	@-24°C, m-value	0.300 Min.		
Direct Tension Test, AASHTO T 314	@-24°C, Failure Strain, %	1.5 Min.		
@-2	24°C, Failure Stress ² , MPa	4.0 Min.		
Modify paragraph 4.5 as follows: After 20 cm ha	as been reached, stop the ductilometer an	d within 2 seconds, sever th		
specimen at its center with a pair of scissors	•			
specimen at its center with a pair of scissors No allowances will be given for passing at a cold				

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IAU				
PG76-22				
Original Binder				
Dynamic Shear Rheometer, AASHTO T 315	@76°C, G*, kPa	1.30 Min.		
-,	@76°C, phase angle, degrees	71.0 Max.		
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.		
Flash Point, AASHTO T 48	°C	260 Min.		
RTFO Residue, AASHTO T 240				
Dynamic Shear Rheometer, AASHTO T 315	@76°C, G*/sinδ, kPa	2.20 Min.		
Elastic Recovery, AASHTO T 301 mod1	%	70 Min.		
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28	•		
Dynamic Shear Rheometer, AASHTO T 315	@ 31°C, kPa	5000 Max.		
Bending Beam Rheometer, AASHTO T 313	@-12°C, S, MPa	300 Max.		
•	@-12°C, m-value	0.300 Min.		
Direct Tension Test, AASHTO T 314	@-12°C, Failure Strain, %	1.5 Min.		
	2°C, Failure Stress ² , MPa	4.0 Min.		
¹ Modify paragraph 4.5 as follows: After 20 cm ha	is been reached, stop the ductilometer an	d within 2 seconds, sever the		
specimen at its center with a pair of scissors		·		
² No allowances will be given for passing at a colde	er grade			

	PG76-28	PG76-28			
Original Binder					
Dynamic Shear Rheometer, AASHTO T 315	@76°C, G*, kPa	1.30 Min.			
	@76°C, phase angle, degrees	71. 0 Max.			
Rotational Viscometer, AASHTO T 316	@135°C, Pa.s	3 Max.			
Flash Point, AASHTO T 48	°C	260 Min.			
RTFO Residue, AASHTO T 240					
Dynamic Shear Rheometer, AASHTO T 315	@76°C, G*/sinδ, kPa	2.20 Min.			
Elastic Recovery, AASHTO T 301 mod ¹	%	75 Min.			
PAV Residue, 20 hours, 2.10 Mpa, 100 °C, AASHTO	R 28				
Dynamic Shear Rheometer, AASHTO T 315	@28°C, kPa	5000 Max.			
Bending Beam Rheometer, AASHTO T 313	@-18°C, S, MPa	300 Max.			
	@-18°C, m-value	0.300 Min.			
Direct Tension Test, AASHTO T 314	@-18°C, Failure Strain, %	1.5 Min.			
@-1	8°C, Failure Stress ² , MPa	4.0 Min.			
Modify paragraph 4.5 as follows: After 20 cm has	been reached, stop the ductilometer and	within 2 seconds, sever th			

2.2 ASPHALTIC CEMENT, LIQUID ASPHALTS, REJUVENATING AGENTS

A. As specified in AASHTO M 226, Table 2 with the following modifications:

Delete and replace ductility at 77 □ F (25 □ C) with ductility at 39.2 □ F (4 □ C) with values as detailed below.

<u> AC - 2.5</u>	<u>AC - 5</u>	<u>AC - 10</u>	<u>AC - 20</u>
50+	25+	15+	5+

B. As specified for cationic and anionic emulsified asphalt.

- 1. All standard Slow Setting (SS, CSS), Medium Setting (MS, CMS), and Rapid Setting (RS, CRS) grades; inclusive of all High-Float designations (HF).
- 2. Supply under the Approved Supplier Certification System (ASC).
- Meet AASHTO M 208 and M 140.
- C. Conform to the requirements of one of these tables:
 - 1. Table 9: Cationic Rapid Setting Emulsified Polymerized Asphalt (CRS-2P)
 - 2. Table 10: Latex Modified Cationic Rapid Setting Emulsified Asphalt (LMCRS-2)
 - 3. Table 11: Cationic Medium Setting Emulsified Asphalt (CMS-2S)
 - 4. Table 12: High Float Medium Setting Emulsified Asphalt (HFMS-2)
 - 5. Table 13: High Float Medium Setting Emulsified Polymerized Asphalt (HFMS-2P)
 - 6. Table 14: High Float Rapid Setting Emulsified Polymerized Asphalt (HFRS-2P)
 - 7. Table 15: Cationic Rapid Setting Emulsified Asphalt (CRS-2A, B)
- D. Curing cut-back asphalt:
 - As specified for slow curing (SC) in ASTM D 2026.
 - 2. As specified for medium curing (MC) in AASHTO M 82.

- As specified for rapid curing (RC) in AASHTO M 81.
- E. Conform to requirements for Emulsified Asphalt Pavement Rejuvenating Agent:
 - 1.
 - Table 16: Type B
 Table 17: Type B Modified
 Table 18: Type C 2.
 - 3.
 - Table 19: Type D 4.

Table 9

	able 3		
Cationic Rapid Setting Emulsi	fied Polymerized Aspl	halt (CRS-2P)	
Tests	AASHTO Test Method	Min.	Max.
Emulsion			
Viscosity , SF, 140□F (60□C), s (Project-site Acceptance/Rejection Limits)	T59	100	400
Settlement (a) 5 days, percent	T 59	1	5
Storage Stability Test (b) 1 d, 24 h, percent	T 59		
Demulsibility (c) 35 ml, 0.8% sodium dioctyl Sulfosucinate, percent	T 59	40 .	1
Particle Charge Test	T 59	Positive	
Sieve Test, percent	T 59	1 .1	0.10
Distillation			
Oil distillate, by volume of emulsion, percent			0
Residue (d), percent		68	
Residue from Distillation Test			
Penetration, 77□F(25□C), 100 g, 5 s, dmm	Т 49	80	150
Ductility, 39.2□F(4□C), 5 cm/min, cm	T 51	35	
Toughness, lb-in	ASTM D 5801	75	
Tenacity, lb-in	ASTM D 5801	50 ,	
Solubility in trichloroethylene, percent	T 44	97.5	

(a) The test requirement for settlement may be waived when the emulsified asphalt is used in less than a five-day time; or the purchaser may require that the settlement test be run from the time the sample is received until it is used, if the elapsed time is less

(b) The 24-hour (1-day) storage stability test may be used instead of the five-day settlement test.

(c) The demulsibility test is made within 30 days from date of shipment.

(d) Distillation is determined by AASHTO T 59, with modifications to include a 350 ± 5□F (177±3°C) maximum temperature to be held for 15 minutes.

Modify the asphalt cement prior to emulsification.

Latex Modified Cationic Rapid Setting	Emulsified Asphalt (L	MCRS-2)	
Tests	AASHTO Test Method	Mín.	Max.
Emulsion	· ·	,	
Viscosity, SF, 122□F (50□C), s (Project Site Acceptance/Rejection Limits)	Т59	100	400
Settlement (a) 5 days, percent	T 59		5
Storage Stability Test (b) 1 d, 24 h, percent	T 59		1
Demulsibility (c) 35 ml, 0.8% sodium dioctyl Sulfosucinate, percent	T 59	40	
Particle Charge Test	Т 59	Positive	
Sieve Test, percent	T 59		0.3
Distillation ,			
Oil distillate, by volume of emulsion, percent			0
Residue (d), percent		65	
Residue from Distillation Test		, , , , , , , , , , , , , , , , , , , ,	
Penetration, 77□F (25□C), 100 g, 5 s, dmm	T 49	40	200
Torsional Recovery (e)		18	

- (a) The test requirement for settlement may be waived when the emulsified asphalt is used in less than a five-day time; or the purchaser may require that the settlement test be run from the time the sample is received until it is used, if the elapsed time is less than 5 days.
- (b) May use the 24-hour (1-day) storage stability test instead of the five-day settlement test.

(c) Make the demulsibility test within 30 days from date of shipment.

- (d) Determine distillation by AASHTO T 59, with modifications to include a 350 ± 5 \square F (177±3 \square C) maximum temperature to be held for 15 minutes.
- (e) CA 332 (California Test Method)

Co-mill latex and asphalt during emulsification

Table 11

	able II	
Cationic Medium Setting	g Emulsified Asphalt (CMS-2S	5)
Tests	AASHTO Te Method	st Specification
É	mulsion	
Viscosity, SF, 122□F (50□C), s	T 59	50 - 450
Percent residue	T 59	60 min
One-day storage stability, percent	T 59	1 max
Sieve, percent	T 59	0.10 max
Particle charge	T 59	Positive
Oil Distillate, percent by volume of emulsion	T 59	5-15
Residue)
Penetration, 77□F (25□C), 100g, 5 sec, dmm	T 59	100-250
Solubility, percent	T 59	97.5 min.

Table 12

High Float Medium Setting Emulsified Asphalt (HFMS-2)			
Tests	AASHTO Test Method	Min.	Max.
Emulsion			, 1
Viscosity, SF, 122°F (50°C), s (Project Site Acceptance/Rejection Limits	T59	70	300
Storage Stability Test, 1d, 24 h, percent	T59		1.0
Sieve Test, percent	T59		0.1
Distillation	T59		
Oil Distillate, by volume of emulsion, percent	T59	NA NA	NA .
Residue, percent	T59	65	
Residue from Distillation Test			
Penetration, 77°F (25°C), 100g, 5 s, dmm	T49	50	200
Float Test, 140°F (60°C), s	T50	1200	
Solubility in Trichloroethylene, percent	T44	97.5	
Ductility, 77°F (25°C) 5cm/min, cm	T51	40	

Table 13

High Float Medium Setting Emu	lable 13 ulsified Polymerized Asphalt (HFN	/IS-2P) (a)	
Tests	AASHTO Test method	Min.	Max.
Emulsion			
Viscosity, SF, 122⊡F (50⊡C), s (Project Site Acceptance/Rejection Limits)	T 59	100	450
Storage Stability Test (a) 1 d, 24 h, percent	T 59		0.1
Sieve Test, percent	T 59		0.1
Distillation			
Oil distillate, by volume of emulsion, percent	Ť 59	1	7
Residue (c), percent	T 59	65	
Residue from Distillation Test			
Penetration, 77□F (25□C), 100 g, 5 s, dmm	T 49	70	300
Float Test, 140□F (60□C), s	T 50	1200	300
Solubility in trichloroethylene, percent	Т 44	97.5	
Elastic Recovery, 77□F (25□C), percent	T 301	50	

Solubility in 1,1,1 Trichloroethylene, percent	AASHTO T 44	98 Min.
Flash Point, COC	ASTM D 92	204 □ C, Min.
Asphaltenes, percent W	ASTM D 2007	15 Max.
Saturates, percent W	ASTM D 2007	30 Max.
Aromatics, percent W	ASTM D 2007	25 Min.
Polar Compounds, percent W	ASTM D 2007	25 Min.

⁽a) Determine the distillation by AASHTO T 59 with modifications to include a 300 ±5□F (149±3□C) maximum temperature to be held for 15 minutes.

Table 17

Emulsified Type B Modified Asp	halt Pavement Rejuvenating Age	ent Concentrate	
Property Test Method Limits			
Viscosity, SF, 77□F (25□C), s	AASHTO T 59	50-200	
Residue by distillation or Evaporation (a), percent W	AASHTO T 59	62 Min.	
Sieve Test, percent W	AASHTO T 59	0.20 Max.	
5-day Settlement, percent W	AASHTO T 59	5.0 Max.	
Particle Charge	AASHTO T 59	Positive	
Pumping Stability (b)		Pass	
Residue from Distillation (a)			
Viscosity (c) 275□F (135□C), cP	ASTM D 4402	150 - 300	
Penetration, 77□F (25□C), dmm	AASHTO T 49	180 Min.	
Solubility in 1,1,1 Trichloroethylene, percent	AASHTO T 44	98 Min.	
Flash Point, COC, □F (□C)	AASHTO T 48	400(204) Min.	
Asphaltenes, percent W	ASTM D 2007	20-40	
Saturates, percent % W	ASTM D 2007	20 Max.	
Polar Compounds, percent W	ASTM D 2007	25 Min.	
Aromatics, percent W	ASTM D 2007	20 Min.	
PC/S Ratio	ASTM D 2007	1.5 Min.	

⁽a) Determine the distillation by AASHTO T 59 with modifications to include a 300±5□F (149± 3°C) maximum temperature to be held for 15 minutes.

(c) Brookfield Thermocel Apparatus-LV model. ≥ 50 rpm with a #21 spindle, 7.1 g residue, at >10 torque

As required by the Asphalt Emulsion Quality Management Plan, UDOT Minimum Sampling and Testing Guide, Section 508) the supplier certifies that the base stock contains a minimum of 15% by weight of Gilsonite Ore. Use the HCL precipitation method as a qualitative test to detect the presence of Gilsonite.

Table 18

Emulsified Type C Asphalt Pa	vement Rejuvenating Agent C	oncentrate
Property	Test Method	Limits
Viscosity, SF, 77□F (25□C), s	AASHTO T 59	10-100
Residue (a), percent W (Type C supplied ready to use 1:1 or 2:1.	AASHTO T 59 (a)	30 Min. 1:1 40 Min. 2:1
Sieve Test, percent W (b)		0.10 Max.
5-day Settlement, percent W	AASHTO T 59	5.0 Max.
Particle Charge	AASHTO T 59	Positive
pH (May be used if particle charge test is inconclusive)		2.0 - 7.0
Pumping Stability (c)		Pass
Tests of Residue from Distillation (a)		
Viscosity, 275□F (135°C), mm²/s	AASHTO T 201	475-1500
Solubility in 1,1,1 Trichloroethylene, percent	AASHTO T 44	97.5 Min.
RTFO mass loss, percent W	AASHTO T 240	2.5 Max.
Specific Gravity	AASHTO T 228	0.98 Min.
Flash Point, COC	AASHTO T 48	232 □C, Min.
Asphaltenes, percent W	ASTM D 2007	25 Min., 45 Max.
Saturates, percent W	ASTM D 2007	10 Max.
Polar Compounds, percent W	ASTM D 2007	30 Min.

⁽b) Test pumping stability by pumping 475 ml of Type B diluted 1 part concentrate to 1 part water, at 77° F (25°C) through a 1/4 inch gear pump operating at 1750 rpm for 10 minutes with no significant separation or coagulation in pumped material.

Type B: an emulsified blend of, lube oil and/or lube oil extract, and petroleum asphalt.

⁽b) Pumping stability is tested by pumping 475 ml of Type B diluted 1 part concentrate to 1 part water, at 77□F (25□C) through a 1/4 inch gear pump operating at 1750 rpm for 10 minutes with no significant separation or coagulation in pumped material.

Aromatics, percent W	ASTM D 2007	15 Min.
(a) Determine the distillation by AASHTO T	59 with modifications to include a 300	0± 5□F (149 ± 3□C) maximum
temperature to be held for 15 minutes.		•
(b) Test method identical to AASHTO T 59		
(c) Test pumping stability by pumping 475 r	nl of Type diluted 1 part concentrate t	o 1 part water, at 77□F (25□C) through a
1/4 inch gear pump operating at 1750 rpm for 10 n	ninutes with no significant separation	or coagulation in pumped material.
As required by the Asphalt Emulsion Quality Mana	gement Plan, UDOT Minimum Sampl	ling and Testing Guide, Section 508), the
supplier certifies that the base stock contains a mil	nimum of 10% by weight of Gilsonite	ore. Use the HCL precipitation method as
a qualitative test to detect the presence of Gilsonit	e.	·

Table 19

40	Tubic 15	
Emulsified Type D	Asphalt Pavement Rejuvenating Agent Co	oncentrate
Property	Test Method	Limits
Viscosity, SF, 77□F (25□C), s	AASHTO T 59	30-90
Residue, (a) percent W	AASHTO T 59 (mod) (a)	65
Sieve Test, percent W	AASHTO T 59	0.10 Max.
рН		2.0 - 5.0
Residue from Distillation (c)		1
Viscosity, 140□F (60□C), cm²/s	AASHTO T 201	300-1200
Viscosity, 275□F (135□C), mm ² /s	AASHTO T 201	300 Min.
Modified Torsional Recovery (b)	CA 332 (Mod)	40 % Min.
Toughness, 77□F (25□C), in-lb	ASTM D 5801	8 Min.
Tenacity, 77□F (25□C), in-lb	ASTM D 5801	5.3 Min.
Asphaltenes, percent W	ASTM D 2007	16 Max.
Saturates, percent W	ASTM D 2007	20 Max.

⁽a) California test method #331 for recovery of residue.

temperature

2.3 HOT-POUR CRACK SEALANT FOR BITUMINOUS CONCRETE

- A. Combine a homogenous blend of materials to produce a sealant meeting properties and tests in Table 20.
- B. Packaging and Marking: Supply sealant pre-blended, pre-reacted, and pre-packaged in lined boxes weighing no more than 30 lb.
 - 1. Use a dissolvable lining that will completely melt and become part of the sealant upon subsequent re-melting.
 - 2. Deliver the sealant in the manufacturer's original sealed container. Clearly mark each container with the manufacturer's name, trade name of sealant, batch or lot number, and recommended safe heating and application temperatures.

Table 20

	, lable 20		
	Hot-Pour Bituminous Concrete Crack Sealar	nt	•
Application Properties:			
Workability:	Pour readily and penetrate 0.25 inch and wider crack range recommended by the manufacturer.	s for the entire applic	ation temperature
Curing:	No tracking caused by normal traffic after 45 minutes	from application.	
Asphalt Compatibility: ASTM D , 5329, Section 141	No failure in adhesion. No formation of an oily ooze a the bituminous concrete or softening or other harmful		
Material Handling:	Follow the manufacturer's safe heating and application	n temperatures.	
Test Method	Property	Minimum	Maximum
AASHTO T 51	Ductility, modified, 1cm/min, 39.2□F (4□C), cm	30	
UDOT method 967	Cold Temperature Flexibility	no cracks	
AASHTO T 300 (a)	Force-Ductility, lb force		4
ASTM D 5329	Flow 140□F (60□C), 5 hrs 75□angle, mm		3
ASTM D 3405 (b)	Tensile-Adhesion, modified	300%	
AASHTO T 228	Specific Gravity, 60□F (15.6□C)	-:-	1.140
ASTM D 5329	Cone Penetration, 77□F (25□C), 150 g, 5 sec., dmm		90

⁽b) Torsional recovery measurement to include first 30 seconds.

⁽c) Determine the distillation by AASHTO T 59 with modifications to include a 300±5□F(149±3□C) maximum to be held for 15 minutes.

ASTM D 5329	Resilience, 77□F (25□C), 20 sec., percent	30	
ASTM D 4402	Viscosity, 380□F (193.3□C), SC4-27 spindle, 20 rpm, cP		2500
ASTM D 5329	Bond as per ASTM D 1190, Section 6.4		Pass

PART 3 EXECUTION

Not used

END OF SECTION

Revision History November 18, 2004 - Revised LMCRS-2 by adding Table 10 from 02745M.

ATTACHMENT C: SPECIAL TERMS AND CONDITIONS

- 1. **CONTRACT PURCHASE**: This is a requirements contract to provide the State with Asphalt Material for a period of one year with a one year renewal option.
- 2. **CONTRACT ACCEPTANCE**: At the time the bid form is signed by the offeror, the signature of that offeror will be used as a legally binding signature, if awarded the contract. When signed by the Division of Purchasing and a Utah Department of Transportation representative and assigned a contract number, this document will become a legally binding contract with the offeror for the contract period.
- 3. **QUANTITY OR AMOUNT ESTIMATES**: This is a requirements contract with the State. Estimated contract amounts are for bidding purposes only and are not to be construed as a guarantee to purchase any specific amount.
- 4. **PRICE ADJUSTMENTS**: Requests for a price change due to crude oil or transportation cost fluctuations must be submitted for approval along with supporting documentation to State a minimum of 45 days prior to the proposed date of change. Only one price increase shall be allowed each year. An adjustment or amendment to the contract shall be effective when approved by the Procurement Manager or Procurement Supervisor.

If a price increase is approved, the modification to the contract shall become effective within 45 days of the date UDOT received the request accompanied by supporting documentation.

- 5. **WAGES**: The Contractor shall be responsible for all applicable company wages in accordance with the federal, state, and local laws and ordinances.
- 6. **INVOICING**: THE CONTRACT NUMBER AND ORDER NUMBER MUST APPEAR ON ALL INVOICES, BILLS OF LADING, PACKAGES AND ALL CORRESPONDENCE RELATING TO EACH ORDER AND DELIVERY.

If an adjustment in payment is necessary due to damage, the cash discount period shall commence on the date final approval is authorized. The State reserves the right to adjust incorrect invoices.

The Contractor shall submit invoices to the appropriate Utah Department of Transportation Region/District, (see attached invoice list). The State will remit payment by mail.

- 7. NON-COMPETE CLAUSE: The Contractor represents its officers and employees are free to contract with the State and are not subject to restrictions by the terms of their present or past employment including, but not limited to an agreement not to compete for a period of time unless disclosure has been made. A Contractor must disclose to the State any possible conflicts, in writing, before the contract is signed and the State will evaluate whether to continue with contract execution. The State may elect to terminate a contract immediately with a Contractor who is subsequently determined to be subject to such restrictions without liability to the State. If the State elects to terminate a contract for this reason, the State will supersede paragraph #12 in Attachment A Standard Terms and Conditions and will not provide 90 day prior notice to the Contractor.
- 8. **DELIVERY**: The Contractor agrees to provide the State with materials in transport trucks, F.O.B. Destination as listed on the attached price lists. Deliveries shall be on an as needed basis, and shall be made at a time agreed upon between the Contractor and the Region/District ordering the material.

The Contractor shall require not more than twenty-four (24) hour advance notice on delivery of materials.

The Region/District shall be notified as soon as possible of a late delivery due to a major breakdown, accident or employee illness occurring after the delivery has left the refinery, or loading point. If the Region/District does not receive notification a reduction in payment for that material shall be at a rate of \$75.00 per one quarter hour for seal coat operations, \$25.00 per one quarter hour for all other maintenance material. Late charges will be charged up to four hours.

Any deliveries later than four hours shall not be accepted.

Full credit less transportation costs will be given for material returned due to weather conditions.

The State reserves the right to obtain undelivered quantities from the next lowest bidder for the material, or from another supplier if no other bids exist, with all cash in excess of the Contractor's bid price being the sole responsibility of the Contractor or their Performance Bond.

9. **BASIS OF PAYMENT:** All Asphalt Material complying to applicable specifications shall be measured and paid by the ton, weighed on approved certified scales and supported by weight tickets with each delivery.

The agreed price per ton shall be full compensation for each ton purchased.

Bids submitted shall include freight to designated zones and will reflect the current petroleum fuel surcharge as published by Intermountain Tariff Bureau, Tariff No. 6-C (Intrastate) or Tariff Bureau ICC-NMF 121 (Interstate).

10. **PERFORMANCE AND PAYMENT BOND**: At the time of the execution of the contract, the Contractor shall provide a performance and a payment bond in the amount of fifteen percent (15%) of the total awarded contract guaranteeing performance, product and payment.

ATTACHMENT D: ITEMIZED PRICE LIST

F.O.B. PLANT PICKUP ONLY

DESCRIPTION	PRICE
SC Asphalt Material	\$N/A
MC Asphalt Material	\$N/A
SS or CSS Emulsified Asphalt Material – Various Grades	\$210.00/ton
CRS-2A OR CRS-2B Emulsified Asphalt Materials – Various Grades	\$210:00/ton
LCRS-2A OR LMCRS2A Asphalt Materials – Various Grades	\$225.00/ton
Asphalt Rejuvenation Type B	\$N/A
Asphalt Rejuvenation Type B Modified – Various Grades	\$N/A
Asphalt Rejuvenation Type C	\$N/A
Asphalt Rejuvenation Type C Modified – Various Grades	\$N/A
Asphalt Rejuvenation Type D	\$N/A
Asphalt Rejuvenation Type D Modified – Various Grades	\$N/A
High Float Emulsion – Various Grades	\$N/A

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CRS-2A	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
Peak Asphalt	224.32	219.16	214.54	214.54	220.69	209.63	209.63	208.86			
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CRS-2P	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
Peak Asphalt	274.32	269.16	264.54	264.54	270.69	259.63	259.63	258.86			
LMCRS-2	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONEG	ZONE H	ZONE	ZONE J	ZONE K
Peak Asphalt	247.32	242.16	237.54	237.54	243.69	232.63	232.63	231.86			
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Peak Asphalt	247.32	242.16	237.54	237.54	243.69	232.63	232.63	231.86			
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Peak Asphalt	174.32	169.16	164.54	164.54	170.69	159.63	159.63	158.86			1
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	EJ TYPE D1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONFF	ZONF G	7 JNF H	ZONF	ZONE	ZONE K		
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REJ TYPE D 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
CSS DILUTED 1:1	ZONE A	ZONE B	ZONEC	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONEI	ZONEJ	ZONE K
Peak Asphalt	167.30	162.69	158.86	164.50							
CSS DILUTED 2:1	ZONË A	ZONE B	ZONEC	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONEI	ZONE J	ZONE K
Peak Asphalt	177.30	172.69	168.86	174.50	,						
SS DILUTED 1:1	ZONE A	ZONE B	SONE C	ZONE D	ZONE E	ZONE F	ZONEG	ZONE H	ZONE I	ZONE J	ZONE K
SS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE-E	ZONE F	ZONEG	ZONE H	ZONE I	ZONE J	ZONE K
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HFE EMULSION	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
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HFMS 1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
·						,					
HFMS-2S.	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
HFMS-2P DILUTED	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
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REQUIRE (2) TWO HOURS OF FREE UNLOADING TIME. CHARGE FOR EXCESS UNLOADING TIME \$100.00 PER HOUR. OVERNIGHT CHARGE \$300.00.

SC LIQ ASPH ZONE A MC LIQ ASPH ZONE A SS OR CSS EMUL ZONE A Peak Asphalt 232.00 CRS-2A ZONE A	A PINOZ							•		
4SPH SS EMUL	_	ZONEC	ZONE D	ZONEE	ZONEF	ZONEG	ZONEH	ZONE	ZONE	ZONF K
4SPH SS EMUL					1				,	1
SS EMUL phalt	ZONE B	ZONEC	ZONE D	ZONEE	ZONE F	ZONEG	ZONE H	ZONE	ZONEJ	ZONF K
SS EMUL phalt		-		,						
phalt	ZONE B	ZONEC	ZONE D	ZONEE	ZONE F	ZONEG	ZONE H	ZONF	ZONF. I	ZONE K
	228.15	228.31	233.10	236.00	244.98	239.04			1	101
	A ZONE B	ZONE C	ZONED	ZONE E	ZONE F	ZONE G	ZONEH	ZONE	ZONE	X NOZ
Peak Asphalt 222.00	218.15	218.31	223.10	226.00	234.98	229.04				
CRS-2B ZONE A	A ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONEK
CRS-2P ZONE A	A ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
LMCRS-2 ZONE A	A ZONE B	ZONEC	ZONF D	ZONF F	ZONE F	ZONE G	ZONE L	ZONE	- 1402	7 11405
alt	-	238.31	243.10	246.00	254.98	249.04	1	7007	POINT O	ZOINE N
LMCRS-2A ZONE A	-	ZONE C	ZONE D	ZONE E	ZONEF	ZONEG	ZONE H	ZONE I	ZONEJ	ZONE K
Peak Asphalt 242.00	238.15	238.31	243.10	246.00	254.98	249.04				
REJ TYPE B ZONE A	A ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
REJ TYPE B MOD ZONE A	A ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONEJ	ZONEK
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REJ TYPE D ZONE A	A ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONEH	ZONE I	ZONE J	ZONEK
REJ TYPE B1:1 ZONE A	A ZONE B	ZONEC	ZONED	ZONEE	ZONE F	SONE G	ZONE H	ZONE	ZONE J	ZONE K
REJ TYPE B 2:1 ZONE A	A ZONE B	ZONE C	ZONED	ZONEE	ZONEF	ZONE G	ZONEH	ZONE	ZONE J	ZONE K
REJ TYPE C 1:1 ZONE A	A ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
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REJ TYPE C 2:1 ZONE A	A ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	-ZONE J	ZONE K
REJ TYPE D1:1 ZONE A	A ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONEG	ZONE H	ZONE	ZONE J	ZONE K
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PRODUCT				REGIC	REGION THREE						
REJ TYPE D 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
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CSS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONEG	ZONEH	ZONE I	ZONE J	ZONE K
Peak Asphalt	167.00	163.15	163.31	168.10	171.00	179.98	174.04				
CSS DILUTED 2:1	ZONE A	ZONE B	ZONEC	ZONE D	ZONEE	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
Peak Asphalt	177.00	173.15	173.31	178.10	181.00	189.98	184.04				
SS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONEG	ZONEH	ZONEI	ZONE J	ZONE K
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SS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONEG	ZONE H	ZONE I	ZONE J	ZONE K
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HFE EMULSION	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE	ZONE J	ZONE K
HFMS 2	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
HFMS-2S	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
HFMS-2P DILUTED	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONEF	SONE G	ZONE H	ZONE	ZONE J	ZONE K
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REQUIRE (2) TWO HOURS OF FREE UNLOADING TIME. CHARGE FOR EXCESS UNLOADING TIME \$100.00 PER HOUR. OVERNIGHT CHARGE \$300.00.

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		ONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	AONE J	ZONE K
REJ TYPE D1:1 ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F		ONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K

PRODUCT				PRICE DISTRICT	STRICT						
REJ TYPE D 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONE H	ZONE I	ZONE J	ZONE K
•						1					
CSS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	168.93	173.05	182.30	194.39	198.09	201.90					
CSS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONEJ	ZONE K
Peak Asphalt	178.93	183.05	192.30	194.39	- 208.09	211.90					
SS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONEH	ZONE I	ZONE J	ZONE K
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SS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
HFE EMULSION	ZONE A	SONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
HFMS 2	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
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HFMS-2S	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONEI	ZONE J	ZONE K
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HFMS-2P DILUTED	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONE H	I JNOZ	f BNOZ	ZONE K
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REQUIRE (2) TWO HOURS OF FREE UNLOADING TIME. CHARGE FOR EXCESS UNLOADING TIME \$100.00 PER HOUR. OVERNIGHT CHARGE \$300.00.

SC LIQ ASPH ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE I ZONE I ZONE D ZONE B ZONE C ZONE D ZONE E ZONE G ZONE B ZONE C ZONE D ZONE D ZONE G ZONE B ZONE C ZONE D ZONE D ZONE G ZONE B ZONE C ZONE D ZONE D ZONE G ZONE B ZONE C ZONE D	PRODUCT				RICHFIELD DISTRICT	DISTRICT					-	
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SS EMUL ZONE B ZONE B ZONE D ZONE D ZONE F	MC LIQ ASPH	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
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phalt 200 EA 240.05 240.17 244.13 246.03 246.03 248.01 281.14 281.14 281.17 </th <th>SS OR CSS EMUL</th> <th>ZONE A</th> <th>ZONE B</th> <th>ZONEC</th> <th>ZONE D</th> <th>ZONE E</th> <th>ZONE F</th> <th>ZONE G</th> <th>ZONE H</th> <th>ZONE</th> <th>ZONE J</th> <th>ZONE K</th>	SS OR CSS EMUL	ZONE A	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
phalt ZONEA ZONEG ZONEG <th< th=""><th>Peak Asphalt</th><th>228.76</th><th>232.85</th><th>240.05</th><th>240.27</th><th>244.73</th><th>245.83</th><th>245.03</th><th>249.11</th><th>251.57</th><th>257.71</th><th></th></th<>	Peak Asphalt	228.76	232.85	240.05	240.27	244.73	245.83	245.03	249.11	251.57	257.71	
phalt 218.76 222.85 230.05 239.27 234.73 235.83 244.03 239.14 241.57 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.71 241.81 240.05 200.05 </th <th>CRS-2A</th> <th>ZONE A</th> <th>SONE B</th> <th>ZONE C</th> <th>ZONE D</th> <th>ZONE E</th> <th>ZONE F</th> <th>ZONE G.</th> <th>ZONEH</th> <th>ZONE I</th> <th>ZONE J</th> <th>ZONE K</th>	CRS-2A	ZONE A	SONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G.	ZONEH	ZONE I	ZONE J	ZONE K
ZONE A ZONE B ZONE C ZONE D ZONE F ZONE F<	Peak Asphalt	218.76	222.85	230.05	230.27	234.73	235.83	244.03	239.11	241.57	247.71	
SONE A SONE B SONE C S	CRS-2B	ZONE A	ZONEB	ZONE C	ZONĘ D	ZONEE	- ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
SONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE B ZONE C ZONE D ZONE B ZONE C ZONE D ZONE C ZONE C ZONE D ZONE C ZONE D ZONE C Z					ı							
Matherstand	CRS-2P	ZONE A	ZONE B	2 ENOZ	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
A	Peak Asphalt	268.76	272.85	280.05	280.27	284.73	- 285.83	263.03	289.11	291.57	297.71	
20NEA 241.85 249.05 249.27 233.73 254.83 263.03 258.11 260.57 260.71 20NEA 20NEB 20NEC 20NED 20NE 20NET 20NE 20NET 20NE 20NET 20NE 20NET 20NE	LMCRS-2	ZONE A	ZONE B	O ENOZ	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE	ZONE J	ZONE K
ZONE A ZONE B ZONE D ZONE D<	Peak Asphalt	237.76	241.85	249.05	249.27	253.73	254.83	263.03	258,11	260.57	266.71	
MOD ZONE A ZONE B ZONE D ZONE D ZONE B ZONE B <th>LMCRS-2A</th> <th>ZONE A</th> <th>ZONE B</th> <th>ZONE C</th> <th>ZONED</th> <th>ZONE E</th> <th>ZONE F</th> <th>ZONE G</th> <th>ZONE H</th> <th>ZONEI</th> <th>ZONE J</th> <th>ZONE K</th>	LMCRS-2A	ZONE A	ZONE B	ZONE C	ZONED	ZONE E	ZONE F	ZONE G	ZONE H	ZONEI	ZONE J	ZONE K
MOD ZONE A ZONE B ZONE D ZONE D ZONE B ZONE B ZONE D ZONE B ZONE B <th>Peak Asphalt</th> <th>237.76</th> <th>241.85</th> <th>249.05</th> <th>249.27</th> <th>253.73</th> <th>254.83</th> <th>263.03</th> <th>258.11</th> <th>260.57</th> <th>266.71</th> <th></th>	Peak Asphalt	237.76	241.85	249.05	249.27	253.73	254.83	263.03	258.11	260.57	266.71	
ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE J ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZO	REJ TYPE B	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONE H	ZONE I	ZONE J	ZONE K
ZONE A ZONE B ZONE D ZONE D ZONE F ZONE F ZONE G ZONE H ZONE H ZONE D ZONE F ZONE F ZONE G ZONE H ZONE H<			. :	_								
ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE H ZONE G ZONE G<	REJ TYPE B MOD	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONE H	ZONE I	ZONEJ	ZONE K
20NE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE H ZONE J ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE F ZONE F ZONE G ZONE H ZONE J ZO	REJ TYPE C	ZONE A	ZONE B	ZONEC	ZONED	ZONEE	ZONE F	ZONEG	ZONE H	ZONE I	ZONEJ	ZONE K
20NE A ZONE B ZONE C ZONE D ZONE E ZONE F ZONE G ZONE G<									,			
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ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J	REJ TYPE B1:1	ZONE A	ZONE B	ZONEC	ZONED	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONEK
ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE J ZONE A ZONE B ZONE C ZONE D ZONE F ZONE G ZONE H ZONE J ZONE J ZONE J ZONE J ZONE B ZONE C ZONE D ZONE G ZONE H ZONE J ZO							,	,	6 ⁸		,	
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ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE F ZONE G ZONE H ZONE I ZONE J ZONE A ZONE B ZONE C ZONE D ZONE F ZONE G ZONE H ZONE I ZONE J ZO					'							
ZONE A ZONE B ZONE C ZONE D ZONE F ZONE G ZONE H ZONE I ZONE J ZONE A ZONE A ZONE C ZONE D ZONE F ZONE G ZONE H ZONE J ZONE J	REJ TYPE C 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
ZONE A ZONE B ZONE C ZONE D ZONE F ZONE G ZONE H ZONE J ZO	A 0 3 3 4 7 3 5 4 4	L C	L C	i i	i i	L	r rivor	L	11706	1	, LIVO	7 11402
ZONE A ZONE B ZONE C ZONE D ZONE E ZONE G ZONE H ZONE I ZONE J	KEJ I TPE C 2:1	ZONE A	ZONE B	2 SONE C	ZONE D	ZONE E	ZONE P	SONE G	ZONE H	ZONE I	ZONE J	ZONE K
	REJ TYPE D1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K

PRODUCT				RICHFIELD DISTRICT	DISTRICT						
REJ TYPE D 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
			-			_					
CSS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	163.76	167.85	175.05	175.27	179.73	180.83	189.03	184.11	186.57	192.71	
CSS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	173.76	177.85	185.05	185.27	189.73	190.83	199.03	194.11	196.57	202.71	-
SS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONEK
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SS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
HFE EMULSION	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
HFMS 2	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
									-		
HFMS-2S	ZONE A	ZONE B	ZONE C	ZONED	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
HFMS-2P DILUTED	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K

REQUIRE (2) TWO HOURS OF FREE UNLOADING TIME. CHARGE FOR EXCESS UNLOADING TIME \$100.00 PER HOUR. OVERNIGHT CHARGE \$300.00.

PRODUCT				CEDA	CEDAR CITY DISTRICT	RICT					
SC LIQ ASPH	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
										-	
MC LIQ ASPH	ZONEA	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
SS OR CSS EMUL	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	SONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	235.88	231.07	232.72	242.97	248.55	252.80					
CRS-2A	ZONE A	SONE B	2 SONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
Peak Asphalt	225.88	221.07	222.72	232.97	238.55	242.80			,		
CRS-2B	ZONE A	ZONE B	SONE C	ZONE D	ZONEE	ZONE F	SONE G	ZONE H	ZONE	ZONE J	ZONE K
1											-
CRS-2P	ZONE A -	ZONE B	ZONE C	ZONED	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	275.88	271.07	272.72	282.97	249.55	292.80					
LMCRS-2	ZONE A	ZONE B	ZONE C	ZONE D	SONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	244.88	240.07	241.72	251.97	257.55	261.80					
LMCRS-2A	ZONE A	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	244.88	240.07	241.72	251.97	257.55	261.80					
REJ TYPE B	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	- ZONE H	ZONEI	ZONE J	ZONE K
							-				
REJ TYPE B MOD	ZONEA	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 LI40E	77407	0 11402	0 11402	7 ONIC E	ZONE	7 11402	ZONE U	1 DIVOZ	ZONE -	NONE K
אבין וייבי	ZOINE A	ZONE B	ZONE	ZONE D	J JAIO7	L ENDS	5 = 5002	ב ביי	ZONE	C ZNOZ	ZOINE IN
REJ TYPE D	ZONE A	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
						-					
REJ TYPE B1:1	ZONE A	ZONEB	ZONEC	ZONED	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONEJ	ZONE K
REJ TYPE B 2:1	ZONEA	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONEG	ZONE H	ZONE I	ZONE J	ZONE K
					-						
REJ TYPE C 1:1	ZONEA	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONEH	ZONE I	ZONE J	ZONE K
REJ TYPE C 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
REJ TYPE D1:1	ZONE A	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONEG	ZONEH	ZONE I	ZONE J	ZONE K

PRODUCT			•	CEDA	CEDAR CITY DISTRICT	RICT					
REJ TYPE D 2:1	ZONE A	ZONE B	ZONEC	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
						1					
CSS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	20NE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	170.88	164.07	167.72	177.97	183.55	187.80					
CSS DILUTED 2:1	ZONE A	ZONEB	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
Peak Asphalt	180.88	174.07	177.72	187.97	193,55	197.80					
SS DILUTED 1:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
								,			
SS DILUTED 2:1	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONEG	ZONE H	ZONE	ZONE J	ZONE K
HFE EMULSION	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONE	ZONE J	ZONE K
HFMS 2	ZONE A	ZONE B	ZONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONEI	ZONE J	ZONE K
HFMS-2S	ZONE A	ZONE B	ZONE C	ZONE D	ZONEE	ZONE F	ZONE G	ZONE H	ZONE I	ZONE J	ZONE K
		-									
HFMS-2P DILUTED	ZONE A	ZONE B	SONE C	ZONE D	ZONE E	ZONE F	ZONE G	ZONE H	ZONEI	ZONE J	ZONE K
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REQUIRE (2) TWO HOURS OF FREE UNLOADING TIME. CHARGE FOR EXCESS UNLOADING TIME \$100.00 PER HOUR. OVERNIGHT CHARGE \$300.00.